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United States Department of Agriculture
AGRICULTURAL MARKETING SERVICE
COTTON DIVISION

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SERVICE AND REGULATORY ANNOUNCEMENT NO. A.M.S. 178 SERIAL RECORD

REGULATIONS OF THE DEPARTMENT OF AGRICULTURE
FOR COTTON FIBER AND PROCESSING TESTS

(Title 7, Ch. I, Part 28, Sections 28.950-28.961 of the Code of Federal Regulations)

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DEFINITIONS

Sec. 28.950 Terms defined. As used throughout this subpart, unless the context otherwise requires, the following terms shall be construed, respectively, to mean:

(a) Regulations. Regulations mean the provisions in this subpart.
(b) Service. The Agricultural Marketing Service of the United States Department of Agriculture.

(c) Administrator. The Administrator of the Agricultural Marketing Service, or any officer or employee of the Service, to whom authority has heretofore been delegated, or to whom authority may hereafter be delegated, to act in his stead.

(d) Division. The Cotton Division of the Agricultural Marketing Service.

(e) Director. The Director of the Cotton Division, or any officer or employee of the Division to whom authority has heretofore been delegated, or to whom authority may hereafter be delegated, to act in his stead.

(f) Laboratories. Laboratories of the Cotton Division that perform the fiber and processing tests described in this subpart.

ADMINISTRATION

Sec. 28.951 Director. The Director shall perform for and under the supervision of the Administrator, such duties as the Administrator may require in enforcing the regulations in this subpart.

FIBER AND PROCESSING TESTS

Sec. 28.952 Testing of samples. The director or his authorized representatives, upon written requests, shall make fiber and processing tests of the properties of cotton samples and report the results thereof to the person from whom such requests are received, subject to compliance by such persons with the regulations in this subpart and to the payment by them of fees as prescribed herein.

Sec. 28.953 Requirements as to samples. Each sample of ginned cotton lint submitted for fiber and processing tests shall weigh approximately as shown below unless otherwise specified in the particular test item as prescribed herein:

- 1 ounce or more for fiber tests.
- 6 pounds or more for carded yarn spinning tests.
- 8 pounds or more for combed yarn spinning tests.
- 10 pounds or more for carded and combed yarn spinning tests.

Each individual sample submitted for testing shall contain a tag or coupon bearing a number or other identification symbol. Individually labelled samples may be sent in one or more parcels, each of which shall bear on the outside thereof the name and address of the person submitting it. Persons who submit samples to laboratories for testing shall comply with any Federal or State quarantine requirements applicable to counties from which such samples are shipped.

Sec. 28.954 Costs of submitting samples. The transportation of samples to a laboratory for testing shall be without expense to the Government.

Sec. 28.955 Disposition of samples. The remnants of samples and the other materials accumulated in the making of tests under the regulations in this subpart shall be the property of the Government. Portions of such samples and materials, however, may be used for illustrative purposes in connection with laboratory reports submitted to persons applying for such tests or may be returned to such persons as prescribed herein for specific test items.

Sec. 28.956 Prescribed fees. Fees for fiber and processing tests shall be assessed as listed below:

Item No.	KIND OF TEST	Fee per test
1	Truncated fiber length array of cotton samples (reporting the percentage of fibers 1/2-inch and longer and the mean length and uniformity of length of such fibers as based on 3 specimens from a blended sample):	
	a. Ginned cotton lint, per sample - - - - -	\$12.50
	b. Comber noils, per sample - - - - -	18.75
	c. Other cotton waste, per sample - - - - -	25.00

Item No.	KIND OF TEST	Fee per test
2.	Fiber length array of cotton samples (reporting the average percentage of fibers by weight in each 1/8-inch group, the average length and the average length variability as based on 3 specimens from a blended sample):	
	a. Ginned cotton lint, per sample - - - - -	\$15.50
	b. Cotton comber noils, per sample - - - - -	21.75
	c. Other cotton wastes, per sample - - - - -	28.00
2.1.	Fiber length array of cotton samples (reporting the average percentage of fibers by weight in each 1/8-inch group, the average length, and the average length variability as based on 2 specimens from a blended sample):	
	a. Ginned cotton lint, per sample - - - - -	11.25
	b. Cotton comber noils, per sample - - - - -	17.50
	c. Other cotton wastes, per sample - - - - -	23.75
2.2.	Fiber array of cotton samples including purified or absorbent cotton (reporting the average percentage of fibers 1/2-inch and longer by weight, the average of fibers shorter than 1/4-inch by weight, the average length, and the average length variability as based on 3 specimens from each sample), per sample - - - - -	15.50
3.	Fiber length of ginned cotton lint by Fibrograph method (reporting the average length and the average length uniformity as based on 4 specimens from a blended sample), per sample - - - - -	1.75
	Minimum fee unless performed in connection with other tests requiring a blended specimen - - - - -	3.50
3.1.	Fiber length of ginned cotton lint by Fibrograph method (reporting the length of each sub-sample and the average length and the average length uniformity for each group of replicate sub-samples as based on 2 specimens from each of 3 or more replicate unblended sub-samples), per sub-sample - - - - -	1.00
	Minimum fee - - - - -	4.00
4.	Fiber length of ginned cotton lint by Digital Fibrograph method (reporting the average length, average length uniformity and average percentage of fibers shorter than 1/2-inch as based on 4 specimens from a blended sample), per sample - - - - -	3.50
4.1.	Fiber length of ginned cotton lint by Digital Fibrograph method (reporting the length of each sub-sample and the average length, average length uniformity and average percentage of fibers shorter than 1/2-inch for each group of replicate sub-samples as based on 2 specimens from each of 3 or more replicate unblended sub-samples), per sub-sample - - - - -	1.75
	Minimum fee - - - - -	3.50
5.	Fiber strength of ginned cotton lint by flat bundle method (reporting the average strength as based on 4 or more specimens from a blended sample), per sample - - - - -	1.75

Item No.	KIND OF TEST	Fee per test
	Minimum fee unless performed in connection with other tests requiring a blended specimen - - - - -	\$3.50
5.1.	Fiber strength of ginned cotton lint by flat bundle method (reporting the strength of each sub-sample and the average strength for each group of replicate sub-samples as based on 2 specimens for each of 3 or more replicate unblended sub-samples), per sub-sample - - - - -	1.00
	Minimum fee - - - - -	4.00
6.	Fiber maturity and fineness of ginned cotton lint by the Causticaire method (reporting the average maturity, fineness, and Micronaire reading as based on 2 specimens from a blended sample), per sample - - - - -	2.50
	Minimum fee - - - - -	7.50
6.1.	Micronaire tests on ginned cotton lint (reporting the average Micronaire reading as based on 2 specimens from a blended sample), per sample - - - - -	.75
	Minimum fee unless performed in connection with other tests requiring a blended specimen - - - - -	3.00
6.2.	Micronaire tests on ginned cotton lint (reporting the Micronaire reading for each sub-sample and the average Micronaire reading for each group of replicate sub-samples as based on 1 specimen from each of 2 or more replicate unblended sub-samples), per sub-sample - - - - -	.25
	Minimum fee - - - - -	3.00
7.	Neps content of ginned cotton lint (reporting the neps per 100 square inches as based on the web prepared from a 3-gram specimen by using accessory equipment with the mechanical fiber blender), per sample - - - - -	2.50
	Minimum fee unless performed in connection with other tests requiring a blended specimen - - - - -	7.50
8.	Furnishing American cotton for laboratory check test (including data for length by both array and Fibrograph methods, strength by flat bundle method 1/8-inch gauge, maturity and fineness by the Causticaire method):	
	a. Short staple, per 1-pound sample - - - - -	7.50
	b. Medium staple, per 1-pound sample - - - - -	7.50
	c. Long staple, per 1-pound sample - - - - -	7.50
	d. Extra long staple, per 1-pound sample - - - - -	7.50
9.	Blending samples of ginned cotton lint (including the blending of a 10-gram sample on the mechanical fiber blender and returning the blended sample to the applicant), per sample - - - - -	1.25
10.	Moisture content of ginned cotton lint, cotton stock at various stages of processing, and cotton lint waste of various types (reporting the percentage of moisture content by the oven-drying method as based on a 20-gram specimen), per sample - - - - -	1.00
	Minimum fee - - - - -	4.00

Item No.	KIND OF TEST	Fee per test
10.1.	Moisture regain of ginned cotton lint at 92 percent relative humidity (reporting the average percentage of moisture regain as based on the bone-dry weight of two 1/2-gram specimens), per sample - - - - -	\$1.50
	Minimum fee - - - - -	6.00
11.	Cotton carded yarn spinning test (reporting data on the wastes extracted, the neps in card web, the yarn skein strength, the yarn appearance, and classification and fiber length as specified in items 28 and 3 as well as comments summarizing any unusual observations as based on the processing of 5 pounds of cotton in accordance with standard laboratory procedures at one of the standard rates of carding of 6-1/2, 9-1/2, or 12-1/2 pounds-per-hour into two of the standard carded yarn numbers of 8s, 14s, 22s, 36s, 44s, or 60s, employing a standard twist multiplier unless otherwise specified), per sample - - - - -	37.50
	Minimum fee - - - - -	75.00
12.	Cotton combed yarn spinning test (reporting data on the wastes extracted, the neps in card web, the yarn skein strength, the yarn appearance, and classification and fiber length as specified in items 28 and 3 as well as comments summarizing any unusual observations as based on the processing of 7 pounds of cotton in accordance with standard procedures at one of the standard rates of carding of 4-1/2, 6-1/2, or 9-1/2, pounds-per-hour into two of the standard combed yarn numbers of 22s, 36s, 44s, 50s, 60s, 80s, or 100s employing a standard twist multiplier unless otherwise specified), per sample - - -	50.00
	Minimum fee - - - - -	100.00
13.	Cotton carded and combed yarn spinning test (reporting the results specified in item numbers 11 and 12 in combination as based on the processing of 9 pounds of cotton into two of the standard carded and two of the standard combed yarn numbers employing the same carding rate and the same yarn numbers for both the carded and the combed yarns), per sample - - - - -	62.50
	Minimum fee - - - - -	125.00
14.	Cotton carded and combed yarn spinning test (reporting the results specified in item numbers 11 and 12 in combination as based on the processing of 9 pounds of cotton into two of the standard carded and two of the standard combed yarn numbers employing different carding rates and/or yarn numbers for the carded and combed yarns), per sample -	75.00
	Minimum fee - - - - -	150.00
15.	Two-pound cotton carded yarn spinning test (available to cotton breeders only reporting data on the neps in card web, the yarn skein strength, the yarn appearance and the classification and the fiber length of the cotton as specified in item numbers 28 and 3	

Item
No.

KIND OF TEST

Fee per
test

as well as comments on any unusual processing performance as based on the processing of 2 pounds of cotton in accordance with standard procedures into 22s and 36s carded yarns employing a standard twist multiplier), per sample - - - - - \$25.00
Minimum fee - - - - - 50.00

16. Processing and testing of additional yarn (any carded or combed yarn number processed in connection with spinning tests as specified in item numbers 11 through 14 including either additional yarn numbers or additional twist multipliers employed on the same yarn numbers):
 - a. Single yarn reporting data on skein strength and appearance, per additional lot of yarn - - 6.25
 - b. 2- or 3-ply yarn reporting data on skein strength only, per lot of yarn - - - - - 12.50
- 16.1. Processing and furnishing of additional yarn (any yarn number processed in connection with spinning tests as specified in items 11 through 14):
 - a. Approximately 300 yards on each of 16 paper tubes for testing by the applicant, per additional lot of yarn - - - - - 12.50In the following quantities wound on paper tubes:

Yarn number	Per Pound	Minimum fee
b. Carded 60s or coarser - -	\$12.50	\$15.50
c. Combed 60s or coarser - -	15.50	18.75
d. Combed 61s to 80s - - - -	18.75	21.75
e. Combed 81s to 100s - - - -	21.75	25.00

17. Spinning twist test (reporting data on the skein strength of any yarn number processed from ginned lint or stock in process employing 6 different spinning twist multipliers as specified by the applicant for determining the optimum twist) processed as follows:
 - a. From ginned lint or picker lap, per sample - 50.00
 - b. From sliver, per sample- - - - - 45.00
 - c. From roving, per sample - - - - - 40.00
- 17.1. Additional spinning twist test (from the same material and in connection with a spinning test or a spinning twist test as specified in item numbers 11 through 14 and 17 reporting data on yarn skein strength for an additional yarn number or additional twists on the same yarn number), per 6 lots of yarn - - - - - 30.00
18. Skein strength of yarn (reporting data on the strength and the yarn numbers based on 25 skeins from yarn furnished by the applicant), per sample - - - - - 3.00
- 18.1. Single strand strength of yarn (reporting data on the strength as based on a minimum of 10 breaks on

Item No.	KIND OF TEST	Fee per test
	yarn from each of 7 bobbins employing an auto- matic testing machine), per sample - - - - -	\$3.75
	Minimum fee - - - - -	7.50
	a. Furnishing copy of chart record, per test- - -	1.25
18.2	Single strand strength of ply yarn or cord (report- ing data on the strength as based on 25 breaks em- ploying a pendulum type testing machine), per sample - - - - -	3.00
18.3	Appearance grade of yarn on bobbins furnished by applicant (reporting the appearance grade in accord- ance with ASTM standards as based on yarn wound from one bobbin), per bobbin - - - - -	1.25
	a. Furnishing yarn wound on boards in connection with yarn appearance tests as specified in item numbers 11 through 15 and 18.3, per yarn number - - - - -	1.25
19.	Processing, weaving, and testing of fabric (report- ing data on the warp and the filling strength by the grab method for any standard cotton fabric for which the laboratories are equipped to produce which are processed in accordance with standard laboratory procedures):	
	a. Processed in connection with spinning tests as specified in item numbers 11 through 14, per lot of fabric - - - - -	90.00
	b. Processed from yarns furnished by the appli- cant, per lot of fabric - - - - -	75.00
20.	Strength of cotton fabric (reporting the average warp and filling strength by the grab method as based on 5 breaks for both warp and filling of fabric fur- nished by the applicant), per lot of fabric - - - - -	3.00
20.1.	Cotton Fabric Analysis (reporting data on the num- ber of warp and filling threads per inch and the weight per yard of fabric as based on at least three (3) 6 x 6-inch specimens of fabric which was processed as specified in item number 19, or fur- nished by the applicant), per lot of fabric - - - - -	6.25
	Minimum fee - - - - -	12.50
20.2.	Sizing content of cotton fabric or yarn (reporting data on sizing content as based on the desizing of a 20 to 40 gram specimen of sized and, if available, unsized fabric or yarn which was processed as specified in item number 19 or furnished by the applicant), per lot of fabric or yarn - - - - -	6.25
	Minimum fee - - - - -	25.00
20.3.	Air-permeability of cotton fabric (reporting the average cubic feet of air per minute per square foot of fabric at a pressure drop of 0.5 inches of water across the fabric as based on five 10 x 10- inch specimens), per lot of fabric - - - - -	3.00
	Minimum fee - - - - -	6.00
21.	Neps and waste test (reporting data on neps in card web and wastes extracted in the processing of a 5- pound specimen of ginned cotton lint through the	

Item No.	KIND OF TEST	Fee per test
	picking and carding processes in accordance with standard procedures as specified in item numbers 11 and 12, per sample -----	\$9.00
21.1.	Determination of neps in card web of cotton (report- ing the average number of neps per 100 square inches of web in specimens furnished by the appli- cant on boards covered with black velvet not to exceed 10 specimens or a total of 360 square inches), per test -----	1.75
22.	Sugar content and acid-alkalinity of ginned cotton lint (reporting data on the percentage of soluble reducing sugar content and the acid-alkalinity in pH units as based on chemical-colorimetric and electronic meter tests on water extracts), per sample -----	1.25
	Minimum fee -----	6.25
22.1.	Sugar content only, per sample -----	1.00
	Minimum fee -----	5.00
22.2.	Acid-alkalinity only, per sample -----	1.00
	Minimum fee -----	5.00
23.	Color of ginned cotton lint (reporting data on the reflectance in terms of Rd values and the degree of yellowness in terms of b values as based on color tests employing the Nickerson-Hunter Colorimeter on samples which have a uniform surface measuring 5 x 6-1/2 inches and weighing approximately 50 grams in order to provide speci- mens which are sufficiently thick to be opaque), per sample -----	.25
	Minimum fee -----	2.00
23.1	Furnishing color diagrams of official grade stand- ards (reporting color values plotted on a diagram as based on tests employing the Nickerson-Hunter Colorimeter for standards purchased by the appli- cants), per set or portion of set -----	15.00
23.2	Furnishing color standards (including a set of stand- ards and a master diagram for use in calibrating Nickerson-Hunter cotton Colorimeters), per set --	30.00
24.	Furnishing copies of test data work sheets (includes individual observations and calculations which are not routinely furnished to the applicant), per sheet -----	1.00
25.	Foreign matter content of cotton samples (reporting data on the non-lint content as based on the Shirley Analyzer separation of lint and foreign matter):	
	a. For samples of ginned lint or comber noils, per 100-gram specimen -----	2.00
	Minimum fee -----	4.00
	b. For samples of ginning and processing wastes other than comber noils, per 100-gram speci- men -----	5.00
	Minimum fee -----	10.00
26.	Furnishing identified cotton samples (includes samples of ginned lint, stock at any stage of	

Item No.	KIND OF TEST	Fee per test
	processing or testing, waste of any type, yarn or fabric selected and identified in connection with fiber and/or spinning tests), per identified sample - -	\$.75
27.	Furnishing additional copies of test reports (includes extra copies in addition to the 2 copies routinely furnished in connection with each test item), per additional sheet - - - - -	.50
27.1.	Furnishing a certified relisting of test results (includes samples or sub-samples selected from any previous tests), per sheet - - - - -	2.50
28.	Classification of ginned cotton lint in connection with fiber and/or processing tests (includes grade and staple classification of 4-ounce samples in accordance with the applicable American standards for the cotton submitted), per sample - - - - -	.25
29.	Combination fiber test including test item numbers 3, 5, and 6, per sample - - - - -	5.00
	Minimum fee - - - - -	10.00
	a. When tested in connection with spinning test item numbers 11, 12, 13, 14, and 15, per sample - - - - -	3.75
	Minimum fee - - - - -	7.50
29.1.	Combination fiber test including test items 3, 5, and 6.1, per sample - - - - -	3.75
	a. When tested in connection with spinning test item numbers 11, 12, 13, 14, and 15, per sample - - - - -	2.00
29.2	Combination fiber test including test items 3.1, 5.1 and 6.2 (on 3 or more replicate sub-samples), per sub-sample - - - - -	1.75
	Minimum fee - - - - -	5.25
30.	Mercerizing and testing of cotton yarn (reporting data on the luster of two 120-yard skeins and strength of the yarn as based on twenty-five 120-yard skeins mercerized in accordance with standard laboratory procedures):	
	a. Including the processing of the extra yarn in connection with spinning test item numbers 11 through 14, per lot of yarn - - - - -	12.50
	Minimum fee - - - - -	50.00
	b. For yarn furnished by the applicant (27 skeins of 120 yards each required), per lot of yarn -	10.00
	Minimum fee - - - - -	40.00
31.	Bleaching and testing of cotton yarn (reporting data on the color of the yarn in terms of Rd reflectance values and plus b degree of yellowness values as based on the measurement of two 120-yard skeins either processed in connection with spinning test item numbers 11 through 14 or furnished by the applicant and bleached in accordance with standard laboratory procedures), per lot of yarn - - - - -	4.00
	Minimum fee - - - - -	40.00
32.	Bleaching, dyeing and testing of cotton yarn (reporting data on the color of the dyed yarn in terms	

Item No.	KIND OF TEST	Fee per test
	of Rd reflectance values and minus b degree of blueness values as based on the measurement of two 120-yard skeins either processed in connection with spinning test item numbers 11 through 14 or furnished by the applicant and bleached then dyed in accordance with standard laboratory procedures), per lot of yarn - - - - -	\$6.00
	Minimum fee - - - - -	60.00
33.	Dyeing and testing of grey cotton yarn (reporting data on the color of the dyed yarn in terms of Rd reflectance values and minus b degree of blueness values as based on the measurement of two 120-yard skeins either processed in connection with spinning test item numbers 11 through 14 or furnished by the applicant and dyed in accordance with standard laboratory procedures), per lot of yarn - - - - -	4.00
	Minimum fee - - - - -	40.00
34.	Luster of cotton yarn (reporting data on the percent luster of grey or mercerized yarn either processed in connection with spinning test item numbers 11 through 14 or furnished by the applicant as based on the measurement of two 120-yard skeins), per lot of yarn - - - - -	1.00
	Minimum fee - - - - -	3.00
35.	Color of cotton yarn (reporting data on the color of grey, bleached, dyed or bleached and dyed yarn either processed in connection with spinning test items 11 through 14 or furnished by the applicant as based on the measurement of two 120-yard skeins), per lot of yarn - - - - -	1.00
	Minimum fee - - - - -	3.00
36.	Air-flow instrument tests and reporting micronaire readings on cotton samples submitted for classification pursuant to §§28.901 - 28.917 in Part 28. These tests will be made available to the extent facilities will permit upon written application from the manager or other officer of the cotton gin which gins the cotton or from other sampling agents authorized to sample cotton pursuant to §28.906. Such applications will provide that the air-flow instrument tests will be made on each sample submitted for classification and that the applicant will be responsible for the payment of the test fee. Application forms for this service will be furnished by the Cotton Division, per sample - - - - -	.08
37.	Air-flow instrument tests and reporting micronaire readings on cotton samples submitted for reclassification pursuant to Commodity Credit Corporation sales programs. Samples and requests for micronaire readings must be submitted in accordance with current instructions pertaining to the applicable CCC sales program, per sample - - - - -	.10

Item No.	KIND OF TEST	Fee per test
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38. Air-flow instrument tests and reporting micronaire readings on cotton samples submitted for classification other than samples tested pursuant to Item 36 and Item 37, per sample - - - - - \$.25

Sec. 28.957 Fees for special tests. In the discretion of the Director, special tests not listed in Sec. 28.956 may be made to the extent that available facilities will permit, subject to the payment of fees as determined by him.

Sec. 28.958 Payment of fees. As soon as practicable after the last day of each calendar month, bills shall be rendered by officers in charge of testing laboratories to all persons from whom payment of fees and costs under the regulations in this subpart shall become due, provided that when desirable any bill may be rendered at an earlier date. Payment shall be by check or by draft or post office or express money order, payable to the order of "Agricultural Marketing Service, USDA."

Sec. 28.959 Limitation of testing services. If at any time funds available for services under the regulations in this subpart may be insufficient to provide for the testing of all samples that may be submitted for the purpose, the Director may place reasonable limitations upon the quantities of samples to be submitted by individuals during any one fiscal year or any one calendar month, and may direct that samples received from cotton breeders shall take precedence over those received from other persons.

Sec. 28.960 Confidential information. No information concerning individual tests under the regulations in this subpart shall be published or communicated in such a way as to disclose to others the identity of the owners of cotton represented by samples submitted for testing, except with the written permission of such owners.

Sec. 28.961 False and misleading information. The publication or communication by any person of false or misleading information concerning the results of tests as reported by laboratories under the regulations in this subpart shall be deemed sufficient cause for denial of testing services to such persons.

COTTON SERVICE TESTING AMENDMENT

7 U.S.C. 473d. Quality tests and analyses by Secretary of breeders and others; fees. The Secretary of Agriculture is authorized to make analyses of fiber properties, spinning tests, and other tests of the quality of cotton samples submitted to him by cotton breeders and other persons, subject to such terms and conditions and to the payment by such cotton breeders and other persons of such fees as he may prescribe by regulations under this chapter. The fees to be assessed hereunder shall be reasonable, and, as nearly as may be, to cover the cost of the service rendered. Mar. 3, 1927, c. 337, Sec. 3d, as added Apr. 7, 1941, c. 42, 55 Stat. 131.

